

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EU) 2015/830

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Compilation date: 07.06.2013

Revision date: 16.04.2019

Revision No: 6

## Section 1: Identification of the substance/mixture and of the company/undertaking

### \*1.1. Product identifier

**Product name:** Cleaner tab for all RATIONAL SelfCookingCenter® and CombiMaster® Plus models  
with automatic cleaning; Art.-No. 56.00.217, 56.00.218, 56.00.582

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of substance / mixture:** Cleaner for professional users

### \*1.3. Details of the supplier of the safety data sheet

**Company name:** RATIONAL AG  
Siegfried-Meister-Straße 1  
86899 Landsberg am Lech  
Germany

**Tel:** +49 8191 327-236

**Fax:** +49 8191 327-72 236

**Email:** [reinigung@rational.com](mailto:reinigung@rational.com)



### 1.4. Emergency telephone number

**Emergency tel:** +49 89 19 240

(Giftnotruf München 'Klinikum rechts der Isar')

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** Skin Corr. 1A: H314; STOT SE 3: H335

**Most important adverse effects:** Causes severe skin burns and eye damage. May cause respiratory irritation.

### 2.2. Label elements

#### Label elements:

**Hazard statements:** H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

**Hazard pictograms:** GHS05: Corrosion

GHS07: Exclamation mark



**Signal words:** Danger

**Hazard components for labelling:** disodium metasilicate, fatty alcohol ethoxylate

**Precautionary statements:** P102: Keep out of reach of children.

P101: If medical advice is needed, have product container or label at hand.

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P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P310: Immediately call a POISON CENTER/doctor.

P501: Dispose of contents to problem waste.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

DISODIUM METASILICATE - REACH registered number(s): 01-2119449811-37-0000

EINECS	CAS	SCL	CLP Classification	Percent
229-912-9	6834-92-0	-	Skin Corr. 1B: H314; STOT SE 3: H335	40-45%

SODIUM CARBONATE - REACH registered number(s): 01-2119485498-19-0000

207-838-8	497-19-8	-	Eye Irrit. 2: H319	25-30%
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SODIUM CUMENESULPHONATE 40% - REACH registered number(s): 01-2119489411-37-0000

239-854-6	15763-76-5	-	Eye Irrit. 2: H319	5-10%
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FATTY ALCOHOL ALCOXYLATE - REACH registered number(s): 02-2119548491-37-0000

-	111190-40-0	-	Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 2: H411	1-<2.5%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Do not induce vomiting. Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours.

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## 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** Irritation or pain may occur at the site of contact. Severe burns may occur.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

**Inhalation:** Not applicable.

**Delayed / immediate effects:** Immediate effects can be expected after long-term exposure.

## 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Corrosive.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Wash the spillage site with large amounts of water. Refer to section 13 of SDS for suitable method of disposal.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. Storage class: 8B (Non-combustible corrosive substances)

**Suitable packaging:** Must only be kept in original packaging.

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## 7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Workplace exposure limits: No data available.

### \*DNEL/PNEC Values

Hazardous ingredients:

#### DISODIUM METASILICATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	1,49 mg/kg	Workers	Systemic
DNEL	Inhalation	6,22 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Dermal	0,74 mg/kg	Population	Systemic
DNEL	Inhalation	1,55 mg/m <sup>3</sup>	Population	Systemic
DNEL	Oral	0,74 mg/kg	Population	Systemic
PNEC	Fresh water	7,5 mg/l	-	-

#### SODIUM CARBONATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	10 mg/m <sup>3</sup>	Workers	-

#### SODIUM CUMENESULPHONATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal (repeated dose)	136,25 mg/kg	Workers	Systemic
DNEL	Inhalation (repeated dose)	26,9 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Oral (repeated dose)	3,8 mg/kg	Consumers	Systemic
PNEC	Fresh water	0,23 mg/l	-	-
PNEC	Marine water	0,023 mg/l	-	-
PNEC	Microorganisms in sewage treatment	100 mg/l	-	-

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Gloves (alkali-resistant). Breakthrough time of the glove material < 1 hour.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Not applicable.

**Environmental:** No special requirement.

## Section 9: Physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

<b>State:</b>	Solid		
<b>Colour:</b>	White		
<b>Odour:</b>	Characteristic odour		
<b>Evaporation rate:</b>	Not applicable.		
<b>Oxidising:</b>	Non-oxidising (by EC criteria)		
<b>Solubility in water:</b>	Soluble		
<b>Viscosity:</b>	Not applicable.		
<b>Boiling point/range°C:</b>	Not applicable.	<b>Melting point/range°C:</b>	No data available.
<b>Flammability limits %: lower:</b>	Not applicable.	<b>upper:</b>	Not applicable.
<b>Flash point°C:</b>	Not applicable.	<b>Part.coeff. n-octanol/water:</b>	No data available.
<b>Autoflammability°C:</b>	Not applicable.	<b>Vapour pressure:</b>	Not applicable.
<b>Relative density:</b>	1000 g/l	<b>pH:</b>	12.2
<b>VOC g/l:</b>	<3%		

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Humidity.

### 10.5. Incompatible materials

**Materials to avoid:** Acids. Metals.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes. Contact with acids liberates toxic gas.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

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## Hazardous ingredients:

### DISODIUM METASILICATE

ORL	MUS	LD50	770	mg/kg
ORL	RAT	LD50	1153	mg/kg

### SODIUM CARBONATE

ORL	MUS	LD50	6600	mg/kg
ORL	RAT	LD50	4090	mg/kg
SCU	MUS	LD50	2210	mg/kg

### FATTY ALCOHOL ALCOXYLATE

ORAL	RAT	LD50	3180	mg/kg
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**Toxicity values:** No data available.

## Symptoms / routes of exposure

**Skin contact:** Irritation or pain may occur at the site of contact. Severe burns may occur.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

**Inhalation:** Not applicable.

**Delayed / immediate effects:** Immediate effects can be expected after long-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

## Hazardous ingredients:

### SODIUM CARBONATE

Freshwater Invertebrates	48H EC50	200-227	mg/l
Lepomis macrochirus	96H LC50	300	mg/l

### SODIUM CUMENESULPHONATE

Oncorhynchus mykiss	96H LC50	>100	mg/l
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### FATTY ALCOHOL ALCOXYLATE

Aquatic Invertebrates	48H EC50	0.1-1	mg/l
Leuciscus idus	96H LC50	0.1-1	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

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## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

## 12.4. Mobility in soil

**Mobility:** Soluble in water.

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** No data available.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number:** 20 01 29

**Disposal of packaging:** May be reused following decontamination.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN3253

### 14.2. UN proper shipping name

**Shipping name:** DISODIUM TRIOXOSILICATE; LQ: 5kg

### 14.3. Transport hazard class(es)

**Transport class:** 8

### 14.4. Packing group

**Packing group:** III

### 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No

### 14.6. Special precautions for user

**Special precautions:** No special precautions.

**Tunnel code:** E

**Transport category:** 3

## Section 15: Regulatory information

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### \*15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** Ingredients according to Regulation (EC) No 648/2004: 15-30% phosphates,  
<5% polycarboxylates, non-ionic surfactants.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

\* indicates text in the SDS which has changed since the last revision.

Data references: Safety data sheets from our raw material suppliers

**Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:**

Calculation method

**Phrases used in s.2 and s.3:** H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.